

What is claimed is:

1. A liquid crystal display device comprising pixel electrodes, a dielectric overlapped on the ends of the pixel electrodes, an oriented film covering the pixel electrodes and the dielectric, and liquid crystals on the oriented film, the liquid crystals
5 having a positive dielectric anisotropy, and the dielectric having a relative dielectric constant larger than a relative dielectric constant of the liquid crystals in the direction of long axis.
2. A liquid crystal display device comprising pixel electrodes, a dielectric overlapped on the ends of the pixel electrodes, an oriented film covering the dielectric
10 and the pixel electrodes, and liquid crystals on the oriented film, the liquid crystals having a negative dielectric anisotropy, and the dielectric having a relative dielectric constant larger than a relative dielectric constant of the liquid crystals in the direction of short axis.
3. A liquid crystal display device comprising pixel electrodes, a dielectric overlapped on the ends of the pixel electrodes, an oriented film covering the dielectric
15 and the pixel electrodes, and liquid crystals on the oriented film, the dielectric having a relative dielectric constant of not smaller than 20.
4. A liquid crystal display device comprising pixel electrodes, a dielectric overlapped on the ends of the pixel electrodes, an oriented film covering the dielectric
20 and the pixel electrodes, and liquid crystals on the oriented film, the dielectric having a relative dielectric constant of not smaller than 30.
5. A liquid crystal display device comprising pixel electrodes, an oriented film on the pixel electrodes, a dielectric provided on the ends of the pixel electrodes, and liquid
25 crystals on the oriented film and on the dielectric, the liquid crystals having a positive dielectric anisotropy, and the dielectric having a relative dielectric constant larger than a
30 relative dielectric constant of the liquid crystals in the direction of long axis.

FOOTNOTES

6. A liquid crystal display device comprising pixel electrodes, an oriented film on the pixel electrodes, a dielectric provided on the ends of the pixel electrodes, and liquid crystals on the oriented film and on the dielectric, the liquid crystals having a negative dielectric anisotropy, and the dielectric having a relative dielectric constant larger than a relative dielectric constant of the liquid crystals in the direction of short axis.
7. A liquid crystal display device comprising pixel electrodes, an oriented film on the pixel electrodes, a dielectric provided on the ends of the pixel electrodes, and liquid crystals on the oriented film and on the dielectric, the dielectric having a relative dielectric constant of not smaller than 20.
8. A liquid crystal display device comprising pixel electrodes, an oriented film on the pixel electrodes, a dielectric provided on the ends of the pixel electrodes, and liquid crystals on the oriented film and on the dielectric, the dielectric having a relative dielectric constant of not smaller than 30.
9. A liquid crystal display device according to claim 4, wherein the cell gap is not larger than 4.5 μm , and the height of the dielectric is not larger than 25% of the cell gap.
10. A liquid crystal display device according to claim 8, wherein the cell gap is not larger than 4.5 μm , and the height of the dielectric is not larger than 25% of the cell gap.
11. A liquid crystal display device according to any one of claims 1 to 8, further comprising an opposing electrode provided facing the pixel electrodes, and an oriented film formed on the opposing electrode, wherein a gap is maintained between the dielectric and the oriented film formed on the opposing electrode.
12. A liquid crystal display device according to any one of claims 1 to 8, wherein the dielectric is an oxide containing titanium or tantalum.

13. A liquid crystal display device according to any one of claims 1 to 8, wherein
said liquid crystal display device is incorporated into an electronic equipment selected
from the group consisting of a video camera, a digital camera, a projector, a head
5 mounted displays, a car navigation system, a car stereo, a personal computers, and a
portable information terminal.